xAPI Profiles and xAPI Adoption in DoD

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AUG2019
DoD Distributed Learning is doing fine.
I'm Stuck! Get me out of here!

SCORM Data
In 15 Seconds, What is xAPI?

- Technical Specification (Targeting Standardization)
- Actor-Verb-Object Structure
- Human and Machine Readable
Learning Record Store (LRS)

- ← This, but digital
- Sharing Across Systems
- Mandates Retrieval
What is an xAPI Profile?

- Template of Technical Rules
- Validates Sets of Statements
- Employs Semantic Web Principles
xAPI Profile Specification

To validate a Statement against the Statement Templates of a Profile, call the `validate` function described in pseudocode below with the Statement and all the Statement Templates from the Profile. This function returns an outcome and an array of Statement Templates. To interpret the results, consult the table after the algorithm definition.

```javascript
function validate(statement, templates):
    matching_templates = []
    failing_templates = []
    outcome = success
    for template in templates:
        if matches_determining_properties(statement, template):
            if follows_rules(statement, template):
                matching_templates.append(template.id)
            else:
                outcome = invalid
                failing_templates.append(template.id)
    if outcome is success:
        if length of matching_templates > 0:
            return success, matching_templates
        else:
            return unmatched, []
    else:
        return invalid, failing_templates
```

- Template of Technical Rules
- Validates Sets of Statements
- Employs Semantic Web Principles
• Generalized Distributed Learning
• Modes of Delivery
• Specific Disciplines
Solution 1: cmi5

- LMS + xAPI = cmi5
- cmi5 Support INCLUDES xAPI Support
- cmi5 handles most things that are done in SCORM
• A simplified tracking data model
• The ability to record and report/retrieve content-defined data
• Support for content as a service (CaaS) model of delivery
• Device/OS/browser independence
• Share data between learning activities
Solution 2: Accrediting an LRS

- Unlock latent benefits of xAPI
- Eliminate “stovepipes”
- Track Human Performance
- Inheritable Baseline Documentation
- Reduction of zero-day costs across DoD
YOU GET AN LRS, YOU GET AN LRS

EVERYONE GETS AN LRS!
Solution 3: Data Validation and Visualization Tools
Parting Thoughts: Importance of Standards

The IEEE Standards Association’s Process

1. **Idea (from Study Group, TAG, WG, …)**
   - PAR
2. **Sponsor (LTSC)**
3. **IEEE-SA New Standards Committee “NesCom”**
4. **LTSC Working Group**
   - Draft Standard
   - NEXT DEADLINE IS MARCH 16
5. **LTSC**
6. **IEEE-SA Standards Review Committee “RevCom”**
7. **IEEE-SA Standards Board**
   - Publication
   - Balloting Committee Review & Comment